

**Polymer and Fiber Engineering (PFEN)**

**Fiber Option (FBEN)**

FR	F	S		F	S	
MATH	1610	1620	Calculus I & II	4	4	P
CHEM	1030	1040	Fund of Chemistry I & II	3	3	P
CHEM	1031	1041	Fund of Chemistry I & II lab	1	1	P
ENGL	1100	1120	English Composition I & II	3	3	C
			Core Social Science I & II	3	3	C
COMP		1200	Introduction to Comp for Engr & Sci	**	2	P
ENGR		1100	Engineering Orientation	**	0	P
ENGR	1110		Introduction to Engineering	2	**	P
				<u>16</u>	<u>16</u>	
<b>SO</b>						
HIST			Core History	**	3	C
CHEM		2030	Organic Chemistry Survey	**	3	M
PFEN	2270		Intro Engineered Fibrous Materials	4	**	M
MATH	2630		Calculus III	4	**	
MATH		2650	Linear Differential Equations	**	3	
PHYS	1600	1610	Engineering Physics I & II	4	4	
STAT	3010		Statistics for Engineers & Scientists	3	**	
ENGR		2050	Statics	**	3	
				<u>15</u>	<u>16</u>	
<b>JR</b>						
ENGL	2200	2210	World Lit I & II	3	3	C
MATH	2660		Topics in Linear Algebra	3	**	
ENGR	2070		Mechanics of Materials	3	**	
ENGR		2200	Introduction to Thermo, Heat & Fluids	**	3	
INSY		3600	Engineering Economy	**	3	
			Free Elective or ROTC	3	**	
PFEN	3100		Fundamentals of Polymers	3	**	M
PFEN	3300		Fibrous Product Testing and Instr.	3	**	M
PFEN		3400	Fund of Coloration and Finishing	**	4	M
PFEN		3500	Str and Prop of Polymers and Fibers	**	3	M
				<u>18</u>	<u>16</u>	
<b>SR</b>						
			Core Fine Arts	3	**	C
PHIL			Core Philosophy	**	3	C
HIST			Core History	**	3	C
ELEC	3810		Fundamentals of Electrical Engineering	3	**	
PFEN	4300		Engineered Fibrous Structures	4	**	M
PFEN	4400		Mechanics of Flexible Structures	3	**	M
PFEN		4500	Fiber Reinforced Materials	**	3	M
PFEN	4810	4820	Poly & Fiber Engr Design I & II	3	3	M
			Technical Elective or ROTC	**	3	
				<u>16</u>	<u>15</u>	
			<b>TOTAL HOURS =</b>			<b>128</b>

Technical Elective - see adviser for approved course listing.

**Polymer Option (PLEN)**

FR	F	S		F	S	
MATH	1610	1620	Calculus I & II	4	4	P
CHEM	1030	1040	Fund of Chemistry I & II	3	3	P
CHEM	1031	1041	Fund of Chemistry I & II lab	1	1	P
ENGL	1100	1120	English Composition I & II	3	3	C
			Core Social Science I & II	3	3	C
COMP		1200	Introduction to Comp for Engr & Sci	**	2	P
ENGR		1100	Engineering Orientation	**	0	P
ENGR	1110		Introduction to Engineering	2	**	P
				<u>16</u>	<u>16</u>	
<b>SO</b>						
HIST			Core History	**	3	C
CHEM	2070	2080	Organic Chemistry I & II	3	3	M
CHEM	2071	2081	Organic Chemistry I & II lab	1	1	M
MATH	2630		Calculus III	4	**	
MATH		2650	Linear Differential Equations	**	3	
PHYS	1600	1610	Engineering Physics I & II	4	4	
STAT	3010		Statistics for Engineers & Scientists	3	**	
ENGR		2050	Statics	**	3	
				<u>15</u>	<u>17</u>	
<b>JR</b>						
ENGL	2200	2210	World Lit I & II	3	3	C
MATH	2660		Topics in Linear Algebra	3	**	
ENGR	2070		Mechanics of Materials	3	**	
ENGR		2200	Introduction to Thermo, Heat & Fluids	**	3	
INSY		3600	Engineering Economy	**	3	
			Free Elective or ROTC	3	**	
PFEN	3100		Fundamentals of Polymers	3	**	M
PFEN		3200	Polymer Processing	**	4	M
PFEN		3500	Str & Prop of Polymers and Fibers	**	3	M
CHEM	3160		Survey of Physical Chemistry	3	**	M
				<u>18</u>	<u>16</u>	
<b>SR</b>						
			Core Fine Arts	3	**	C
PHIL			Core Philosophy	**	3	C
HIST			Core History	**	3	C
ELEC	3810		Fundamentals of Electrical Engineering	3	**	
PFEN	4100		Polymer Characterization	4	**	M
PFEN	4200		Poly. from Renewable Resources	2	**	M
PFEN		4500	Fiber Reinforced Materials	**	3	M
PFEN	4810	4820	Poly & Fiber Engr Design I & II	3	3	M
			Technical Elective or ROTC	**	3	
				<u>15</u>	<u>15</u>	
			<b>TOTAL HOURS =</b>			<b>128</b>

Technical Elective - see adviser for approved course listing.

M = Major course

P=Pre-engineering course must be completed within four semesters

C = University Core required of all students

Nov-08